*JFH*CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jodi Hobbs  
Name

Jodi Hobbs  
Signature

06/12/2008  
Date

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: A.R. Salimi and M. C. Knodel
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

PETITION FOR CORRECTION OF INVENTORSHIP PURSUANT TO 37 CFR §1.324

Sir:

This is a petition for correction of error in inventorship corresponding to the claimed subject matter of U.S. Patent No. 5,820,870.

The undersigned respectfully requests the addition of Robert Lowe and James C. Cook, III as inventors pursuant to 37 C.F.R. § 1.324.

Submitted herewith are the following supporting documents:

- (1) A statement, signed by Robert Lowe and James C. Cook, III, that this inventorship error was inadvertent and occurred without deceptive intent on their part, as required by 37 CFR § 1.324(b)(1);
- (2) a statement, signed by current named inventors Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper, that they have no

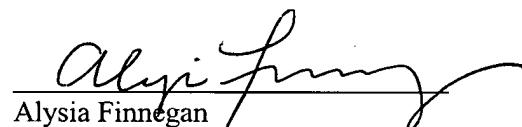
Patent No.: 5,820,870  
Case No.: 19425  
Page 2

disagreement in regard to the change requested above, as required by 37 CFR § 1.324(b)(2); and

- (3) a statement, signed by an authorized representative of Merck & Co., Inc., assignee of U.S. Patent 5,820,870, agreeing to the change as required by 37 CFR § 1.324(b)(3); and
- (4) a statement under 37 C.F.R. § 3.73(b), establishing ownership of Merck & Co., Inc., of U.S. Patent 5,820,870.

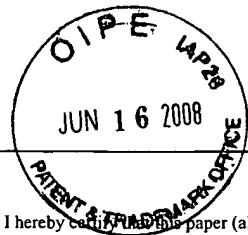
The Patent & Trademark Office is hereby authorized to deduct the requisite fee for correction of inventorship pursuant to 37 C.F.R. § 1.20(b) from Deposit Account No. 13-2755. Any additional fees that may be due in connection with the filing of this paper may be charged to Deposit Account No. 13-2755.

Respectfully submitted,

By   
Alysi Finnegan  
Reg. No. 48,878  
Attorney for Applicants

Merck & Co., Inc.  
P.O. Box 2000  
Rahway, NJ 07065-0907  
(732) 594-2583

Date: June 12, 2008



CERTIFICATE OF MAILING

I hereby certify that the paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jodi Hobbs  
Name

Jodi Hobbs  
Signature

06/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neerer	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: A.R. Salimi and Marian C. Knode
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

STATEMENT REGARDING INVENTORSHIP PURSUANT TO 37 CFR §1.324(b)(1)

Sir:

The above-referenced U.S. Patent, issued on September 18, 2001, inadvertently fails to list my name as inventor. Pursuant to 37 CFR § 1.324(b)(1), I hereby state that this error was made without deceptive intent on my part.

Respectfully submitted,

Date: 15 May 2008

By James C. Cook  
James C. Cook, III

Date: 14 May 2008

Robert L. Lowe  
Robert Lowe



CERTIFICATE OF MAILING

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Jodi Hobbs  
Name

Jodi Hobbs  
Signature

06/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: M.C. Knodel & A.R. Salimi
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT REGARDING INVENTORSHIP PURSUANT TO 37 CFR §1.324(b)(2)**

Sir:

We, Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper, are the only persons currently listed as inventors on the above-referenced U.S. Patent, which issued on October 13, 1998.

We understand that a Petition for Correction of Error in Inventorship is concurrently being submitted to request that James C. Cook, III and Robert Lowe be added as inventors.

Patent No.: 5,820,870  
Case No.: 19425  
Page: 2

We hereby state that we have no disagreement in regard to the change requested above.

Respectfully submitted,

Date: 5/12/2008

By Joseph G. Joyce  
Joseph G. Joyce

Date: \_\_\_\_\_

Hugh A. George

Date: 5/16/2008

Kathryn J. Hofmann  
Kathryn J. Hofmann

Date: \_\_\_\_\_

Kathrin U. Jansen

Date: \_\_\_\_\_

Michael P. Neeper



CERTIFICATE OF MAILING

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Jodi Hobbs  
Name

Jodi Hobbs  
Signature

06/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: M.C. Knodel & A.R. Salimi
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT REGARDING INVENTORSHIP PURSUANT TO 37 CFR §1.324(b)(2)**

Sir:

We, Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper, are the only persons currently listed as inventors on the above-referenced U.S. Patent, which issued on October 13, 1998.

We understand that a Petition for Correction of Error in Inventorship is concurrently being submitted to request that James C. Cook, III and Robert Lowe be added as inventors.

Patent No.: 5,820,870  
Case No.: 19425  
Page: 2

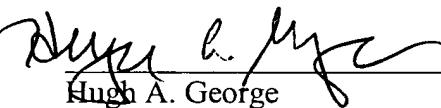
We hereby state that we have no disagreement in regard to the change requested above.

Respectfully submitted,

Date: \_\_\_\_\_

By \_\_\_\_\_  
Joseph G. Joyce

Date: 23-MAR-2008

  
\_\_\_\_\_  
Hugh A. George

Date: \_\_\_\_\_

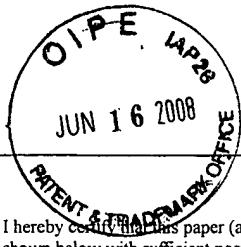
\_\_\_\_\_  
Kathryn J. Hofmann

Date: \_\_\_\_\_

\_\_\_\_\_  
Kathrin U. Jansen

Date: \_\_\_\_\_

\_\_\_\_\_  
Michael P. Neeper



CERTIFICATE OF MAILING

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Jodi Hobbs  
Name

Jodi Hobbs  
Signature

07/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: M.C. Knodel & A.R. Salimi
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT REGARDING INVENTORSHIP PURSUANT TO 37 CFR §1.324(b)(2)**

Sir:

We, Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper, are the only persons currently listed as inventors on the above-referenced U.S. Patent, which issued on October 13, 1998.

We understand that a Petition for Correction of Error in Inventorship is concurrently being submitted to request that James C. Cook, III and Robert Lowe be added as inventors.

Patent No.: 5,820,870  
Case No.: 19425  
Page: 2

We hereby state that we have no disagreement in regard to the change requested above.

Respectfully submitted,

Date: \_\_\_\_\_

By \_\_\_\_\_  
Joseph G. Joyce

Date: \_\_\_\_\_

Hugh A. George

Date: \_\_\_\_\_

Kathryn J. Hofmann

Date: \_\_\_\_\_

  
Kathrin U. Jansen

Date: \_\_\_\_\_

Michael P. Neeper



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Jodi Hobbs  
Name

*Jodi Hobbs*  
Signature

06/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
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Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT REGARDING INVENTORSHIP PURSUANT TO 37 CFR §1.324(b)(2)**

Sir:

We, Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper, are the only persons currently listed as inventors on the above-referenced U.S. Patent, which issued on October 13, 1998.

We understand that a Petition for Correction of Error in Inventorship is concurrently being submitted to request that James C. Cook, III and Robert Lowe be added as inventors.

Patent No.: 5,820,870  
Case No.: 19425  
Page: 2

We hereby state that we have no disagreement in regard to the change requested above.

Respectfully submitted,

Date: \_\_\_\_\_

By \_\_\_\_\_  
Joseph G. Joyce

Date: \_\_\_\_\_

Hugh A. George

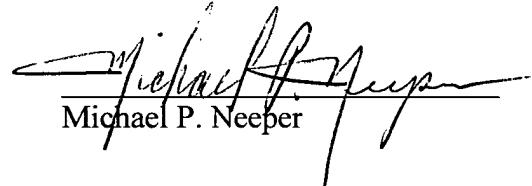
Date: \_\_\_\_\_

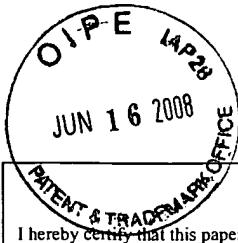
Kathryn J. Hofmann

Date: \_\_\_\_\_

Kathrin U. Jansen

Date: 12 Feb 2008

  
Michael P. Neeper



CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jodi Hobbs  
Name

Jodi Hobbs  
Signature

06/12/2008  
Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	U.S. 5,820,870	(Case No. 19425)
Issued:	October 13, 1998	
Name of Patentee:	Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper	
Title of Invention:	RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE	
Application No.:	08/409,122	Examiner: A.R. Salimi
Filed:	March 22, 1995	

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FROM ASSIGNEE OF PATENT REGARDING INVENTORSHIP**  
**PURSUANT TO 37 CFR §1.324(b)(3)**

Sir:

The above-referenced U.S. Patent, which issued on October 13, 1998, lists the following persons as inventors: Joseph G. Joyce, Hugh A. George, Kathryn J. Hofmann, Kathrin U. Jansen, and Michael P. Neeper. A Petition for Correction of Error in Inventorship is concurrently being submitted to request the addition of James C. Cook, III and Robert Lowe as inventors of the subject matter claimed in Patent No. 5,820,870.

As authorized representative of Merck & Co., Inc. (hereinafter "Merck"), assignee of U.S. Patent 5,820,870, I hereby state that Merck agrees to the change in inventorship noted

Patent No.: 5,820,870  
Case No.: 19425  
Page: 2

above. A statement under 37 C.F.R. §3.73(b) is submitted herewith, establishing Merck as owner of record of the above-referenced patent.

Respectfully submitted,

By Sheldon Heber  
Sheldon O. Heber  
Reg. No. 38,179  
Attorney for Applicant

Merck & Co., Inc.  
P.O. Box 2000  
Rahway, NJ 07065-0907  
(732) 594-1958

Date: 6-12-2008

JUN 16 2008

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Merck & Co., Inc.

Application No./Patent No.: 5,820,870 Filed/Issue Date: October 13, 1998

Entitled: RECOMBINANT HUMAN PAPILLOMAVIRUS TYPE 18 VACCINE

MERCK & CO., INC, a Corporation,

(Name of Assignee)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 008908 Frame 0930; Reel 021036, Frame 0665; Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

- As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO.

See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee, pursuant to attached Corporate Resolution No. 5, dated April 22, 2008.

  
Signature

Sheldon O. Heber

Printed or Typed Name

6-12-2008

Date

Managing Counsel, Patents

(732) 594-1958

Title

Telephone Number

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

**MERCK & CO. INC.**

**CERTIFICATION**

I, Debra A. Bollwage, Senior Assistant Secretary of Merck & Co., Inc. (the "Company"), a corporation duly organized and existing under the laws of the State of New Jersey, do hereby certify that the attached, presently in full force and effect, is a true and correct copy of General Corporate Resolution #5, Patent Matters, as amended by Unanimous Written Consent of the Board of Directors of said Company on April 22, 2008.

IN WITNESS WHEREOF, I have hereunto subscribed my signature and affixed the seal of the Company this 30<sup>th</sup> day of April 2008.



Debra A. Bollwage  
Senior Assistant Secretary

(SEAL)

**Page 1 of 1**  
**Amended 4/22/08**

**General Corporate Resolution #5**

**PATENT MATTERS**

**RESOLVED**, that any of the following:

Richard T. Clark-Chairman, President and Chief Executive Officer  
Bruce N. Kuhlik-Executive Vice President and General Counsel  
Joseph F. DiPrima-Vice President and Assistant General Counsel  
Paul D. Matukaitis-Vice President and Assistant General Counsel  
Edward W. Murray-Managing Counsel, IP Litigation  
Gerard Devlin-Counsel, IP Litigation  
Valerie J. Camara-Managing Counsel, Patents  
Mark R. Daniel-Managing Counsel, Patents  
Catherine D. Fitch-Managing Counsel, Patents  
Sheldon O. Heber-Managing Counsel, Patents  
William Krovin-Managing Counsel, Patents  
David A. Muthard-Managing Counsel, Patents  
Anthony Rollins-Managing Counsel, European Patents  
Edward M. Yoshida-Managing Counsel, Rosetta Inpharmatics  
Charles M. Caruso-Counsel, International  
Peter Haeberli-Assistant Counsel, Sirna Therapeutics, Inc.  
Kenichi Osawa-Senior Director, Banyu Patent and Trademark Group  
Donna L. Margiotta-Senior Manager, Patent Administration

are authorized to execute and to revoke on behalf of Merck & Co., Inc. and its affiliates (including subsidiaries) the following documents relating to patent matters:

Powers of attorney as fully in law as may be necessary and proper in connection with the acquisition, registration, maintenance and enforcement of patents and applications for patents, including powers of attorney relating to the prosecution or defense of patent rights before courts of law or other governmental tribunals, agencies or departments; affidavits and declarations; and any other documents which are necessary and proper for the acquisition, registration, maintenance, litigation and protection of patents.

08058

